TARGETING

- OIF LESSONS
- ROAD

LESSONS LEARNED EQUIPMENT

- COLLECTIONS/SENSORS
  - NATIONAL/THEATRE
  - OPERATIONAL
  - TACTICAL

- INFORMATION FLOW
  Good, but….
  - SIPR
  - DISSEMINATIONS
    - MISREPS
    - RECON
    - TACTICAL UAV

LESSONS LEARNED
EQUIPMENT

- **ADOCS (NEW TO USMC)**
- **AFATDS (TECHNICAL FIRES, FIRE SUPPORT)**
- **C2PC (NOT A FIRES TOOL, WHAT NEXT)**
- **TBMCS (SOMETHING THE AIR GUYS USED)**
  - ***JTT (NOT READY FOR PRIME TIME)***
  - ***EMT (FOLLOWED JTT BACK TO THE BENCH,***

Contractors, contractors, contractors, then LD…

- **DOCTRINE IS SOUND**
  - **TTPs LARGELY SUPPORTED DOCTRINE AND SYSTEM TIE IN AT ECHELON**
  - ***NOT WELL FUZED BETWEEN ECHELON***

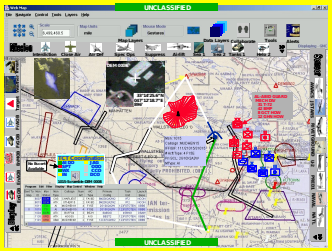
ROAD AHEAD

SENSOR PLATFORMS - DATA PORT/SOURCE
DATA SOURCE – TARGET DEVELOPMENT
TARGET DEVELOPMENT – TECHNICAL SOLUTIO
TECHNICAL SOLUTION – WEAPON PLATFORM
WEAPON PLATFORM – PROSECUTION
PROSECUTION - ASSESSMENT
REINTRODUCE TO TARGETING CYCLE

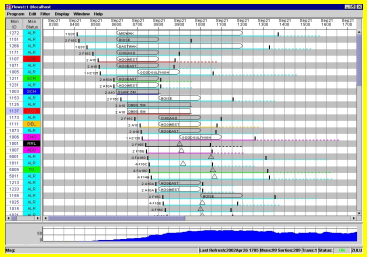
!!!FUSION!!!

High-Level Application Architecture

User Interface



Graphical



Timeline

Mission Coordination: Time Sensitive Targets
File Edit Filter Plot Tools Reports
Tgt No. Description Mission No Acft Call Sign TST NLT TOO AIR NCA CM EA PSO
AB0002 AN-2 AT AIRFIELD
AH0003 MOBILE SAM
AB0003 FIGHTERS AT AIRFLD
AH0026 AN-2 ON RUNWAY
AH0034 LARGE ASSY AREA 6666 2-F15C FELON21
AC0001 AN-2 MIG
AH0046 SCUD CP
AH0049 ARTY CP
AB0029 SCUD BN 4500B 2-F4E LION523

Mission Managers

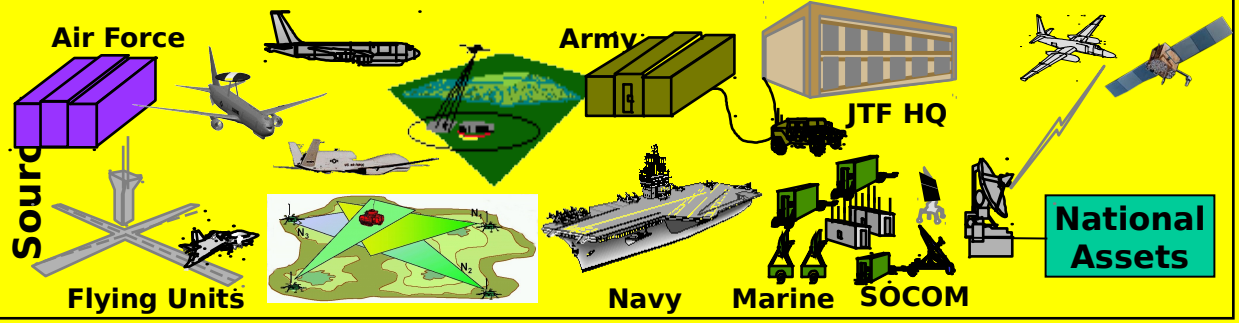
Application Services

- Task Coordination Manager
- Filter Managers
- Alerts Manager
- Briefing / Reports Manager
- Comm Manager
- Decision Tools

Information Services

- Information Service Tier (e.g., Execution Management Services)
- Data Mediation Tier (e.g., Data Encapsulation & Caching)
- Ops | Intel | Video | Tracks | Message
- Data Access Agents

Data Sources



C2PC

Injectors

Trackplot: Display the CTP/COP

Routes: Display and distribute routes and waypoints

VMF: Display VMF Message information

TBMD: Theater Ballistic Missile Defense Warning

Planning: Planning tool for unit locations

Overlays: Display battlefield geometries and coord measures

DSTB: Analysis tools, such as line of sight analysis

Intel Office: Access and display of MIDB information

EMT: Access and display AFATDS fire support information

SPEED: Communications analysis and planning tool

GCCS

IOS (V2)
MIDB and I3
Segments

AFATDS

IOW

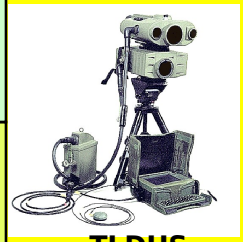
Trackplot | VMF | Overlays | Intel Office | DSTB | SPEED | FS Client

C2PC

Mappin g Track Management

Communicatio ns and Messaging Gatewa y

Windows NT/2000
(WinCE for C2CE)

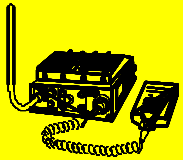


TLDHS

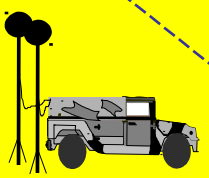
Mounted DACT

Dismounted DACT

SINCGARS



EPLRS



MRC-142

AFATDS/WEEMC INTERFACE

- WEEMC will:
  - Have an XML interface with AFATDS version 6.4
  - Pass and receive battlefield geometries to/from AFATDS
  - Pass (Request?) for fires to AFATDS
  - Receive fires picture from AFATDS (C-F COP)

- Schedule:
  - AFATDS XML development underway
  - Initial integration with WEEMC early June 04
  - Further integration late July
  - AFATDS code freeze and final WEEMC integration early Sept
  - Interface demonstration in JFCOM J9 JFI experiment late Sept

WEEMC Client Component Types

Spiral 1, 2, & 3 ← → **Anticipated Spiral 3**

Thick Local Apps

- Natively Installed
- Robust USI
- Windows Look & Feel
- Highest Performance
- For Example: C2PC, ICSF, ADOCS, Native TCM

Thin Web Apps

- Not Natively Installed
- Signed Applets
- Runs in Java Plugin
- Robust USI
- Windows Look & Feel
- High Performance
- Can Interact With Local System & Processes
- Tolerant of Intermittent Comms
- Large Initial Download
- For Example: WebAAT, WEBEM, WebMAP, Remote TCM

Ultra-thin Web Apps

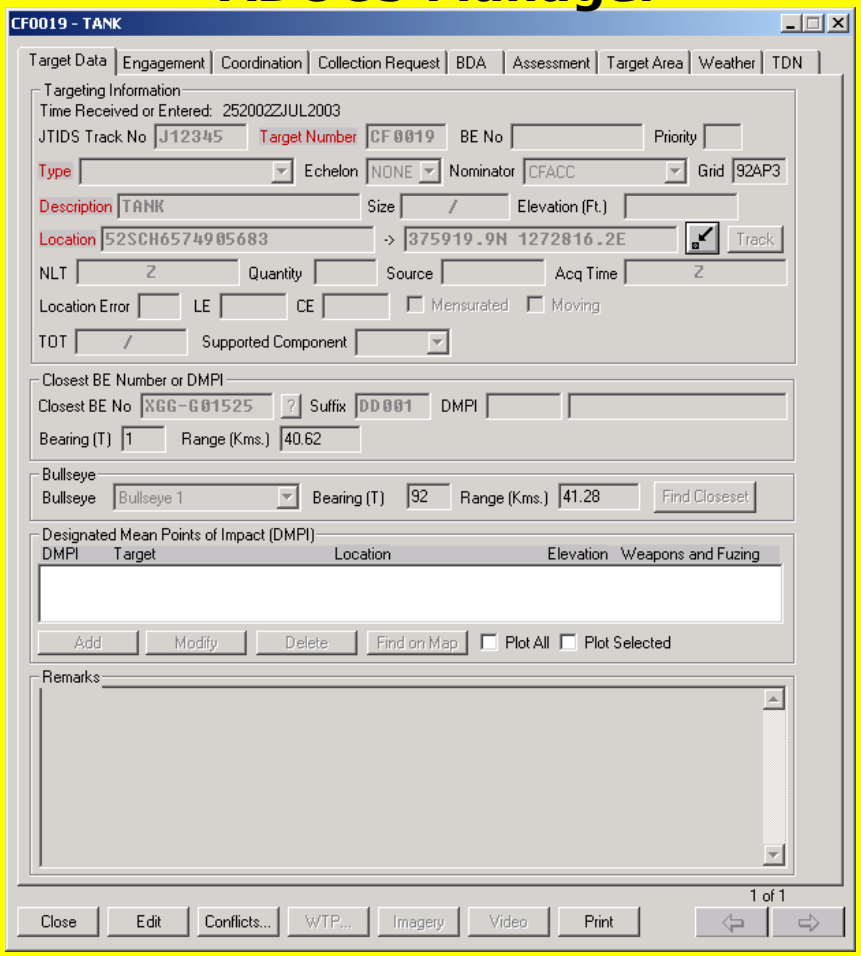
- Not Natively Installed
- HTML, JSPs, Cold Fusion, JavaScript, Small Applets, Etc
- Runs Within Browser
- Web Browser Look & Feel
- May Have More USI Delay
- Generally Requires Stable Comms
- No Large Initial Download
- Ex: Most Commercial Web Sites, CAOC Centra OPAGEs, WebCop

Functionality and Performance ← → Accessibility

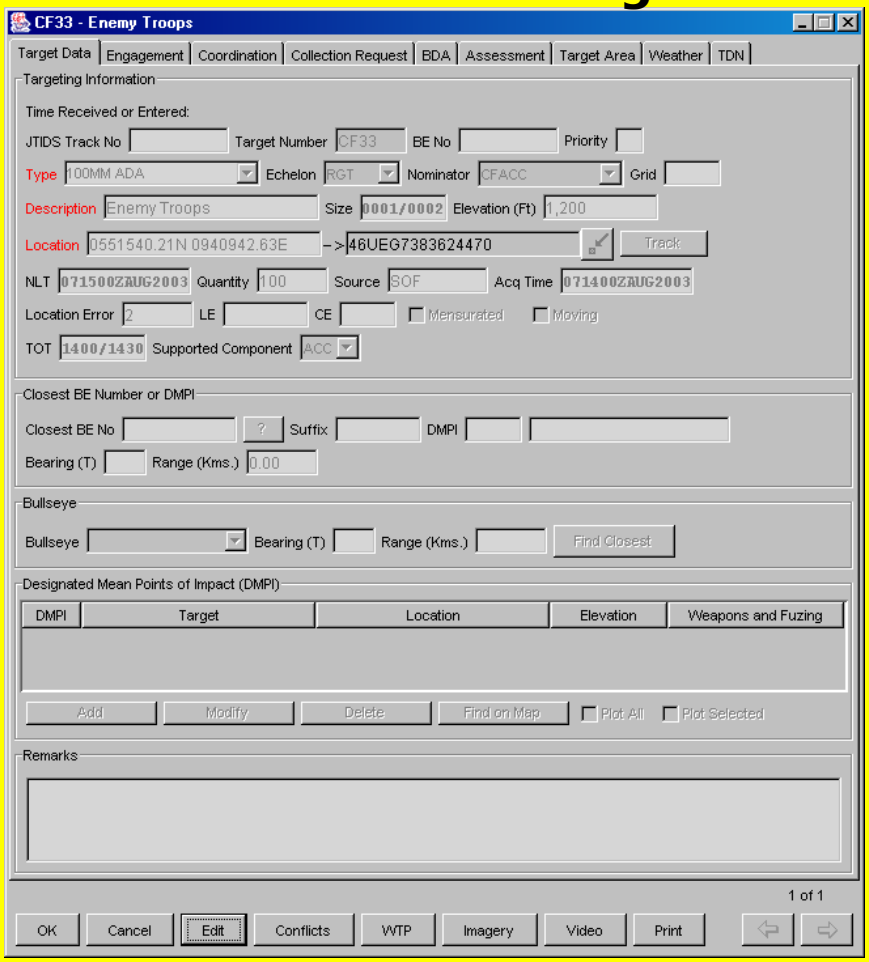
Local Warfighters — **Local & Remote Warfighters** — **Austere Remote Warfighters And Data Tourists**

TASK COORDINATION MANAGERS TAB STACK

ADOCS Manager



WEEMC Manager



HOW DO WE GET THERE

SYSTEMS INTEGRATION/COLLABORATION/NETWO

- **IT MUST TALK TO COLLECTIONS PLATFORMS/SY**
- **IT MUST DO/COLLABORATE W/ TARGET DEVELOP AGENCIES/SYSTEMS**
- **IT MUST SEND TARGETABLE DATA TO A TECHNIC SOLUTION SYSTEM AND OR WEAPONS PLATFORM AIR, GROUND, MARITIME, "EFFECTS"**
- **IT MUST TRACK TARGETS FROM CRADLE TO GRA AND FEED THEM BACK INTO THE TARGETING CY WHEN NECESSARY**

IT IS JUST THAT SIMPLE…

Future Software/Systems Direction

Log

GCCS

IOS (V1/V2)

AFATDS

TBMCS

Plug-ins

Gateway

Network Based Services

Injectors

C2PC/JTCW

Gateway Distribution

ENM

IOW

M-DACT

D-DACT

TLDHS

Unix Servers and data services at Higher Echelons – "Back room Systems".

Injectors and Gateway plug-ins become NBS aware, as well as Gateway distribution aware.

Gateway bridges the gap between NBS environment and disadvantaged comms environment

Data Linking between various injectors at Workstation Level– Common picture

QUESTIONS??